



# Virginia Aviation System

Economic Engines  
Technology Magnets  
Tourism Gateways

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# Economic Engines, Technology Magnets, Tourism Gateways

- Virginia Airport System Economic Impact Study 2010
  - \$28.8 Billion in Economic Activity
  - \$11 Billion in Wages
  - 259,000 Jobs
- Technology Magnets
  - Virginia Airports attract high technology businesses
- Tourism Gateways
  - Over 8 million annual visitors through our airports
    - *Visitor Spending \$11.2 Billion annually*
    - *23,000 daily visitors*





# VISION

We will be the **standard of excellence** amongst state aviation agencies.

We will make the Virginia Aviation System the **model air transportation system**, providing Virginia communities **economic development** opportunities and **convenient access** to the National air transportation system.





# DOAV is IS-BAO and ISO 9000 Certified

## ■ IS-BAO Certification for Flight Department

- 1<sup>st</sup> State Avn Department in the Nation to achieve
- 120<sup>th</sup> Business in the world
- Two King Air 350s
  - 11 Passenger,
  - 365 mph cruise,
  - 1500 Mile Range



## ■ ISO 9000 Certification – Quality Management

- 1<sup>st</sup> State Aviation Agency Nationally
- 2<sup>nd</sup> Agency in the Commonwealth





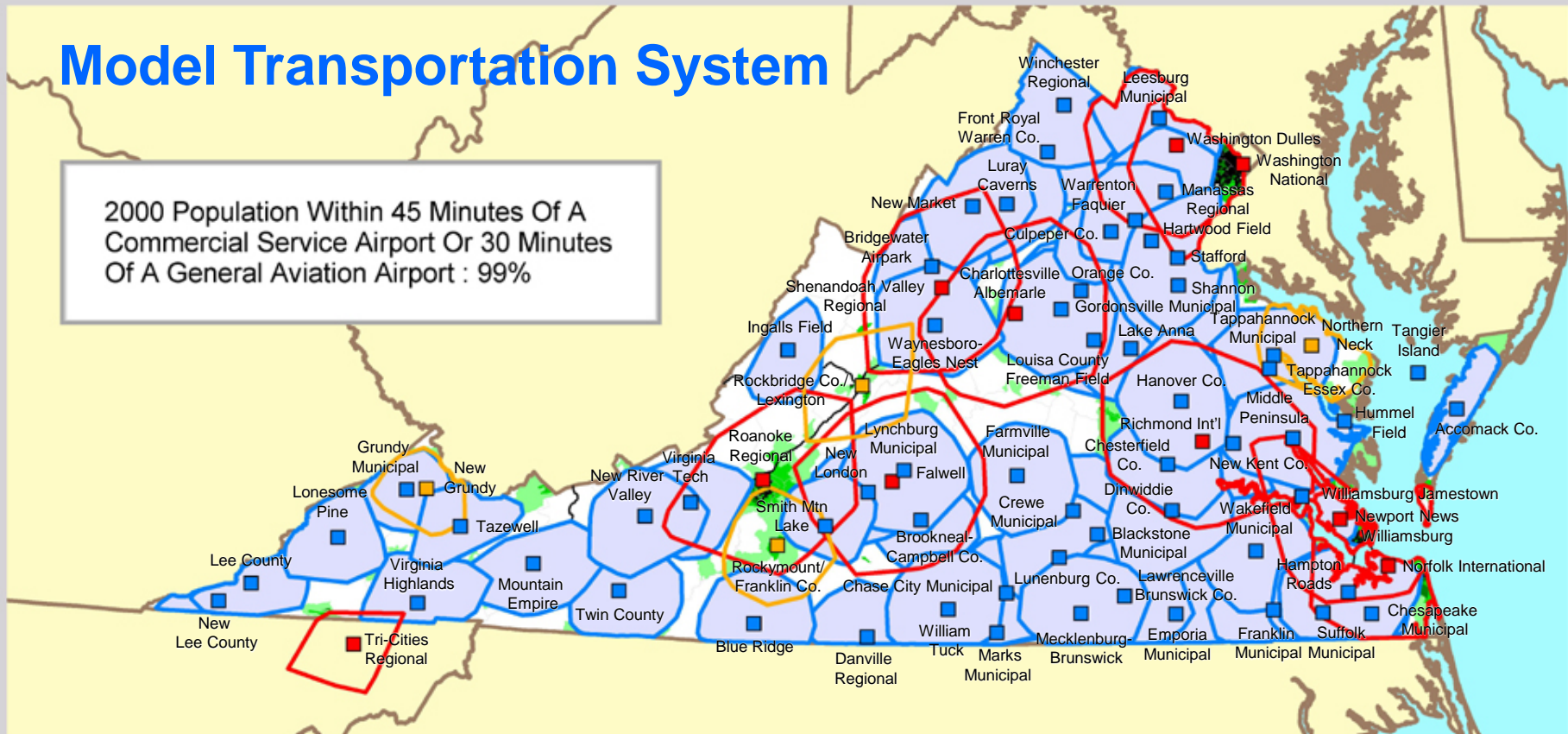
# VIRGINIA AIR TRANSPORTATION SYSTEM PLAN

ALTERNATIVE 2 - EXPANDED SYSTEM

Alt - Exhibit 10

## Model Transportation System

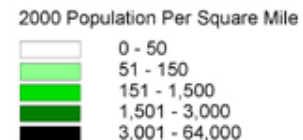
2000 Population Within 45 Minutes Of A Commercial Service Airport Or 30 Minutes Of A General Aviation Airport : 99%



DRAFT

- |  |   |  |                                   |
|--|---|--|-----------------------------------|
|  | 45 Minute Commercial Service Travel Time        |  | Commercial Service Airport        |
|  | 30 Minute General Aviation Travel Time          |  | General Aviation Airport          |
|  | 30 Minute Proposed General Aviation Travel Time |  | Proposed General Aviation Airport |

50 0 50 Miles



Source: HNTB Analysis



# Private Owned/Private Use Airports

- Created the **Virginia Airstrip Owners Association (VAOA)**
- Purpose: Communication, Security & Networking
  - Security Training - training sessions started early CY '10
  - Participating Legislatively
  - Included in 2011/2012 Directory
  - Including in state and local Emergency Planning
- 8<sup>th</sup> State to pass Recreation Aviation Legislation
  - Supported by the Recreation Aviation Foundation
- Created Group Insurance Policy to reduce cost of insuring private airstrips.





# Turf Runway Initiative for Training

- Virginia only has 2 licensed turf runways
  - Shannon Airport                      1500 ft
  - South Boston                              2650 ft
- Additional Turf Runways Benefit:
  - Flight Schools
  - Glider Communities
  - Warbirds
  - Tailwheel Aircraft

Goal 10 – 20 New Turf Runways at existing public use airports





# MISSION

DOAV will;

Cultivate an **advanced** aviation system that is **safe, secure** and provides for **economic development**;

Promote **aviation awareness** and **education**; and

Provide the **safest** and **most efficient** flight services for the Commonwealth Leadership and State Agencies





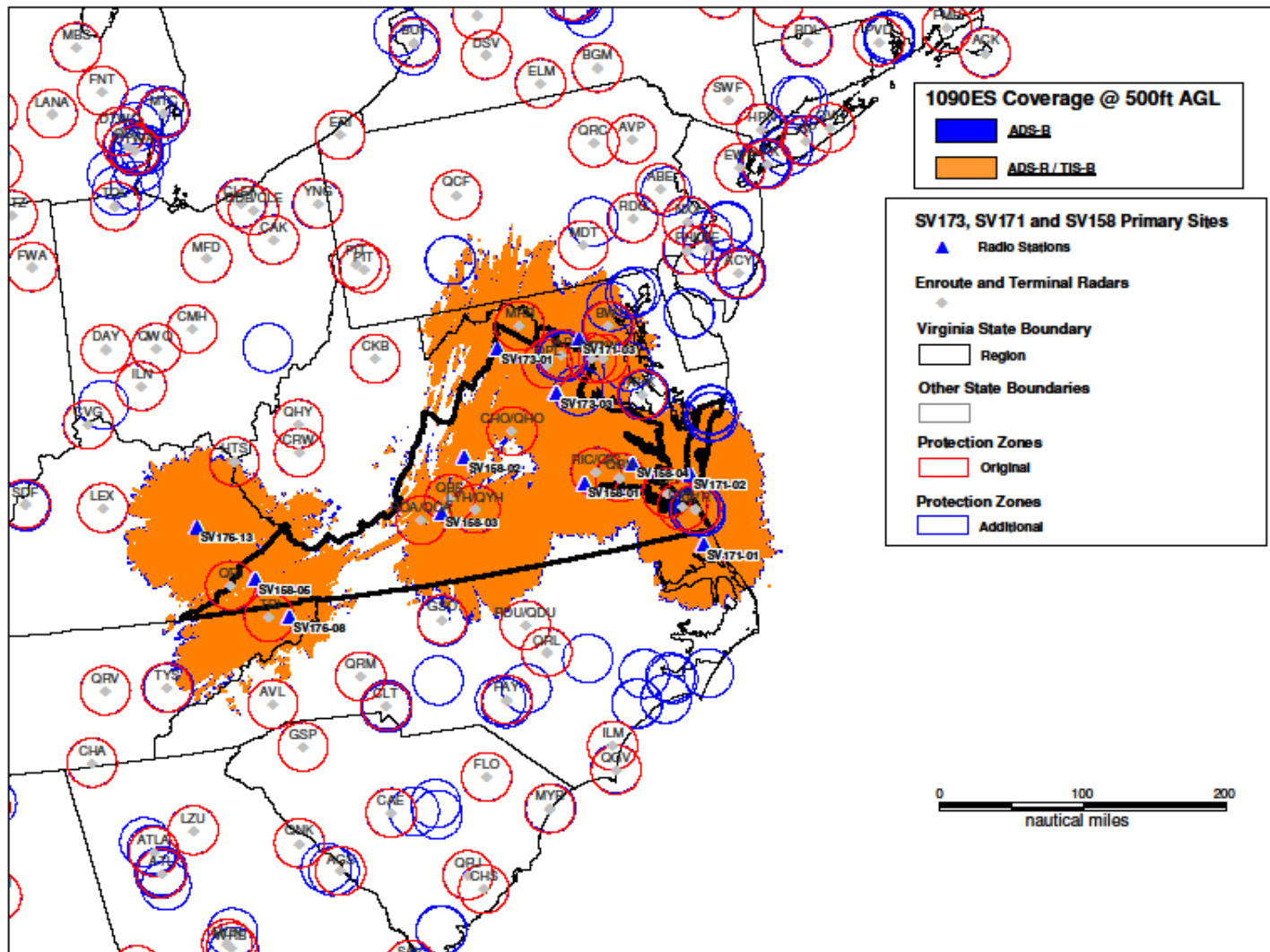
# Advanced Aviation System

- Statewide NAVAIDS Study
  - \$75 Million in improvements over 15+ yrs
- ADS-B
  - Phase 1 - 8 stations installed and operational
  - Phase 2 - 7 additional stations (w state input)
    - *Dulles*
    - *Roanoke*
    - *Lynchburg*
    - *Charlottesville*
    - *Norfolk*
  - Phase 3 – State purchased systems to close gaps





# 500 Ft Coverage





# Small Community Airport Access Program (SCAAP)

- To Improve Safety and **Business** Access at GA Airports
- Weather Reporting Information at every airport (AWOSIII)
  - **Altimeter Setting**
  - **Ceiling**
  - **Visibility**
  - **Winds**
  - **Recorded Information**
- Approach to every airport
  - **GPS to minimums or**
  - **GPS to 1000 ft with 3 miles visibility**
  - **HUGE improvement to SAFETY and all weather Access**





# SCAAP

## ■ Weather Reporting Systems

1. Blackstone **Commissioned**
2. Brookneal **Commissioned**
3. Chase City **Commissioned**
4. Crewe **Commissioned**
5. Lawrenceville **Commissioned**
6. Front Royal **Commissioned**
7. Gordonsville **Commissioned**
8. Hummel **Commissioned**
9. Lunenburg **Commissioned**
10. Lake Country **Commissioned**
11. New Kent **Commissioned**
12. William Tuck **Commissioned**
13. Tangier **Spring Const**
14. Lake Anna **Commissioned**
15. New Market **Commissioned**
16. Waynesboro **Legal/Resolved**
17. Bridgewater **Legal Pending**
18. Falwell **Declined**
19. New London **Declined**
20. Smith Mtn Lake **Declined**

## ■ Approaches Day Only 1000ft & 3 miles

1. Chase City
2. Crewe **100%**
3. Gordonsville **Completed**
4. Hummel **Nov 2012**
5. Lawrenceville
6. Lunenburg
7. Tangier
8. Bridgewater
9. Lake Anna
10. New London
11. New Market
12. Shannon
13. Smith Mtn Lake
14. Williamsburg
15. Waynesboro

**ONLY STATE WITH 100%**





# Virginia Aviation Facts

Total Pilots in Virginia: 14,620

Down from over 19,000 in 2004!

Total Mechanics in Virginia (2008) 4,864

Compared to PA	8,864
NY	12,080
TX	31,497
CA	34,908



**BIG EDUCATION CHALLENGE**





# Workforce Analysis

- Boeing estimated a *global* need of 460,000 new commercial airline pilots, and 650,000 commercial airline maintenance technicians.
- *FAA Aerospace Forecast*: estimated U.S. need for 12,595 air carrier pilots in U.S. over next 20 years.
- The Virginia aviation and space industry is expected to need at least 12,283 new workers over the next 10 years.
  - *10,399 workers will be needed to replace retirees*
  - *2,000 workers will be needed for industry expansion*
  - *Does not consider leakage*

**Workforce Implementation Plan – Consortium Working**



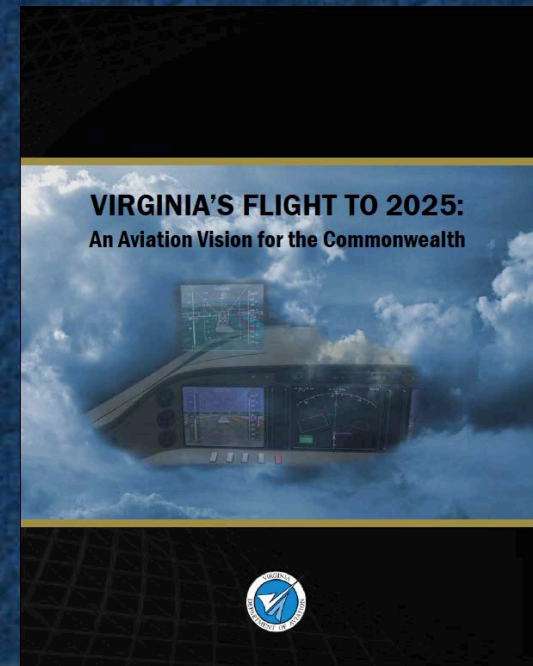


# Virginia NextGen Focus

## Jobs

- Early Implementation
  - Mature Technologies
- Test Bed
  - Maturing Technologies
- Research Center
  - Emerging Technologies

## Revenue





# Virginia NextGen Potential

The VA NextGen potential can only be met through a comprehensive approach that accounts for the technology, process, and people parts of the puzzle.





# Virginia Volunteer Pilots Group (VVPG)

- To provide ability to use volunteer pilots/aircraft during an emergency
  - 1<sup>st</sup> of its Kind
- Partnering with VDEM
- Coordinating with Civil Air Patrol & Air Care Alliance
- Utilized during Hurricane Sandy
  - Photo reconnaissance
  - Air Transport of Volunteer Labor



■ Preparing Marketing campaign for Virginia Airports





# Virginia Volunteer Pilot Group members

- Pilots for Christ (PCI)
- Pilots N Paws (PnP)
- Patient Airlift Services (PALS)
- Mercy Medical Airlift (MMA)
  - Angel Flight Mid Atlantic
- Virginia Seaplane Pilots Association
- Angel Flight East (AFE)
- Civil Air Patrol (CAP)
- Virginia Helicopter Association
- Virginia Private Airstrip Owners Association (tentative)





# DOAV Funding

- DOAV receives less than .1% of its agency budget from General Funds
  - Governor's use of DOAV aircraft
- DOAV funded through Aviation Fees
  - Aviation Fuel Fees = 5 cents per gallon
  - Aircraft Sales and Use Tax = 2% of sales price
- DOAV Capital Airport Fund is 2.4% of the TTF
  - Aviation contributes to the TTF from the Aviation Fuel Fees





# Department of Aviation Budget 2014

## Capital Improvement Program

**\$22.3 Million**

2.4% of the Transportation Trust Fund (TTF)

(Aviation contributes to TTF from Aviation Fuel Sales)

Runways

Aprons

Terminals

Airside Improvements

## Aviation Special Fund

**\$9.8 Million**

Funded by Aviation Fuel Tax, Aircraft Sales and Use Tax

GA Airport Security

Airport Maintenance

Facilities & Equipment

Air Service Development

Airport Promotion

Small Aircraft Transportation System (SATS)

Aircraft Operations

Aircraft and Airport License

Administration

**CIP could leverage over \$200 Million in Federal Grants**





# 2015-2016 Budget Amendments

Description	FY 15	FY 16
Increased aircraft operation costs due to expiration of original manufacturer warranty and increased fuel costs	\$200,000	\$200,000
Support agency information system improvements (financial management system, communications circuit, phone system replacement, and critical improvements to agency business applications).	257,000	257,000
Support salary and fringe benefit changes authorized by the 2013 General Assembly and an agency-wide classification/compensation analysis performed by DHRM	365,021	365,021
Miscellaneous Central Agency Cost Increases (e.g. auto liability, DPB Performance Budget System, telecomm, DOA Cardinal System, worker's comp)	4,634	14,631
<b>Total</b>	<b>\$826,655</b>	<b>\$836,652</b>





# Governor's Aerospace Council

- Purpose is to advise the Governor, and other executive branch secretariats, on policy and funding priorities with respect to aerospace economic development, workforce training, educational programs, and educational curriculum.
- Total membership of 20
  - 4 elected legislative members,
  - 9 citizen members
  - 7 ex officio members.





# Governor's Aerospace Council

- Non-elected members
  - Mid-Atlantic Regional Spaceport
  - Old Dominion University
  - University of Virginia
  - Virginia Tech
  - Aerospace companies have included
    - *Rolls Royce*
    - *Orbital Sciences*
  - Several state agency executives also have a seat, and NASA seats exist for Langley and Wallops as ex-officio members.





# Aviation Opportunities

1. UAS Test Range
2. Next Gen
3. Aviation & Space Education
  - Needed for both our Aviation & Space Operations
4. Virginia Aviation & Aerospace Research Consortium





# How Can I Help?

1. National Association of State Aviation Officials (NASAO) – Former Chairman
2. Virginia Resources Authority (VRA) – Board of Directors
3. Virginia Aeronautical Historical Society (VAHS) – Board of Directors
4. Washington Airports Task Force (WATF) – Board of Directors
5. Virginia Aviation Business Association (VABA) – Board of Directors
6. Virginia Helicopter Association (VHA) – Board of Directors
7. Virginia Airstrip Owners Association (VAOA) – Board of Directors
8. Governor's Aerospace Council – Board of Directors
9. Virginia Commercial Space Flight Authority (VCSFA) – Board of Directors
10. Virginia Airport Operators Council (VAOC) – Corporate Member
11. Aeronautical States Association (ASA) – Virginia Representative w Dale Nash
12. Recreation Aviation Foundation (RAF) – Virginia Representative
13. National Business Aviation Association (NBAA) – Agency Member and Partner
14. Aircraft Owners & Pilots Association (AOPA) – Member and Partner
15. Experimental Aircraft Association (EAA) – Lifetime Member and Partner w Chapters
16. American Association of Airport Executives (AAAE) – Certified Member (CM)
17. National Air Transportation Association (NATA) – Member





# Virginia Department of Aviation

In many cases, our airports are the first and  
last impression of Virginia.

Let's make that impression count!

